

CyFlex® Knowledge Article

Converting from PAM to DARTS

Author: Justin Jaworski

January 18, 2021

Converting from PAM to DARTS



General Information and Instructions

This Cyflex® Knowledge Article describes procedures to convert from PAM data to DARTS data.

go script

Revise the go script as follows:

- Remove pam_specs and PAMheader.
- Replace datapoint with darts_datapoint.

Spec File Format Conversion

The format of the spec file for darts_datapoint differs from datapoint. Convert the /specs/pam_specs.xxx file to a new /specs/darts_specs.xxx file.

Refer to Converting pam_specs.XXX to darts_specs.xxx below.

New /cell/darts fixed.xxx file

The new /cell/darts_fixed.xxx file is considered a test cell configuration file versus a test set up file like engine_specs. The darts_fixed.xxx file is unlikely to be modified after CyFlex is set up at a test cell.

The contents of the darts_fixed.xxx file must include mandatory keywords required by DARTS to accept the datapoint files. Refer to Sample darts_fixed.XXX File on page 3.

Converting pam_specs.XXX to darts_specs.xxx

\$PAMHeader to \$DartsHeader converts precisely.

Move all \$PAMDatapoint content to the \$Measured section of the darts_specs.xxx file with exceptions of ECM_ and USER keywords. Take the following actions for these:

Place all keywords prefixed by ECM_ in the \$ECM section. This will send to DARTS
using Calterm names. For example:

```
Change Accelerator_Pedal_Position AVER ECM_ACCELERATOR_PEDAL_POSITION from:
```

to:

Accelerator_Pedal_Position AVER Accelerator_Pedal_Position

Place all keywords that use USERXX@XX as their keyword in the \$AuxUser section.
 For example:

Converting from PAM to DARTS



Converting pam_pnp to darts_pnp

Perform the actions described in *Converting pam_specs.XXX to darts_specs.xxx* on page 1 for the files listed in the /specs/pam_pnp file.

Additionally, rename the /specs/pam_pnp file to /specs/darts_pnp.

Sample darts_specs.XXX file

```
$Type
DARTS_SS_SPECS
$FormatRev
REV01
$DartsHeader
# TestID
           testid extension
myTestID
            ctc
$Measured
# Label
             Averaging
                           DARTS Keywords (0-4)
# Note: DARTS keywords are case-sensitive and must be all caps
exh_stk_p
                                 AVER
                                                TUR_OT_P
fpmp_in_p
                                                FPMP IN P
                                 AVER
barometer
                                 AVER
                                                BAROMETER SAE_REF_PA
$ECM
                               Averaging
                                            Stored_Channel_Names (0-4)
# Label
# Note: Stored_Channel_Names are arbitrary but must not conflict with
# ECM 0 data source
Accelerator_Supply_Voltage1
                                         Accelerator_Supply_Voltage@1
                                AVER
Accelerator_Pedal_Position
                                         Accelerator_Pedal_Position
                                AVER
Accel_Position_Sensor_Volts1
                                SNAP
                                         Accel_Position_Sensor_Volts@1
$AuxUser
# Label
                               Averaging
                                            Stored Channel Names (0-4)
# Note: Stored_Channel_Names are arbitrary but must not conflict with
# Standard keywords
ext_ot_p
                               AVER
                                              ext_ot_p
press_1
                               AVER
                                              press@1
```



Converting from PAM to DARTS

Sample darts_fixed.XXX File

```
# The darts_fixed file specifies data to be included in the
```

\$FixedMetaData section of the darts_datapoint and dlogger output

files.

The default path is: /cell/darts_fixed.<cell_name>

\$Type

DARTS_SS_FIXED

\$OutputPath

/data/transfer/darts_datapoint

\$FormatRev

REV01

The keywords represent CyFlex labels that are mandatory to send

datapoints to DARTS.

\$Keywords

#<CyFlex label> <DARTS keyword>

programPROGRAM#RequiredtpidTEST_ID#Requiredtest_typeTEST_TYPE#RequiredMODEMODE#RequiredgroupGROUP#Required

site SITE tc TESTCELL

\$END